

Report of Inspection, Testing & Maintenance of Standalone Fire Suppression Water Storage Tanks

2005 Edition

ALL QUESTIONS ARE TO BE ANSWERED AND ALL BLANKS TO BE FILLED (Weekly Inspection tasks are NOT included in this report)

Inspecting Organization:		Inspection Contract#		_
Name of Inspected Property:				٦
Inspector Name:				
Inspection Frequency:Monthly	Quarterly	Annually Other		
Monthly Inspection	Y N/A N	Quarterly Inspection	Y N/A	1
A.1.0 Tank in service on inspection		C.1.0 Tank in service on inspection		
A.2.0 Water level checked (where not equipped with		C.2.0 Water level checked (where equipped with		
supervised water level alarm connected to a		supervised water level alarm connected to a		
constantly attended location)		constantly attended location)		
A.3.0 Air pressure checked for pressure tanks with a		C.3.0 Air pressure checked for pressure tanks with air		
nonsupervised air pressure source		pressure supervision in accordance with NFPA 72		
A.4.0 Control valves in normal open or closed position		C.4.0 Tank exterior free from signs of damage		
A.4.1 Control valves properly locked or supervised		or weakening		
A.4.2 Control valves accessible		C.4.1 Tank supporting structure free from signs of		
A.4.3 Control valves provided with appropriate wrenches		damage or weakening		
A.4.4 Control valves free from external leaks		C.4.2 Tank vents free from signs of damage		
A.4.5 Control valve identification signs in place		C.4.3 Tank foundation free from signs of damage		
A.4.6 System control valve sign indicates area served		or weakening		
,		C.4.4 Tank catwalks/ladders free from signs of		
A.6.0 COMMENTS:		damage or weakening		
		C.5.0 Tank area free of combustible storage, trash,		
		debris, brush, or other material that could		
		present a fire exposure hazard		
		C.5.1 Tank area free of accumulation of material on		
		or near parts possibly resulting in accelerated		
Monthly Testing for Water Storage Ta	nks	corrosion or not		
	Y N/A N	C.5.2 Tank and support free of ice buildup		
B.1.0 Tank in service before testing		C.5.3 Exterior sides and top of embankments		
B.1.1 Pertinent parties notified before testing		supporting coated fabric tanks free of erosion		
B.2.0 Low water temperature alarm tested		C.6.0 FDC is visible		
(cold weather only)		C.6.1 FDC is accessible		
B.3.0 High water temperature limit switch tested		C.6.2 FDC swivels/couplings undamaged/rotate		
(when heating system in service)		smoothly		
B.4.0 Pertinent parties notified of test conclusion		C.6.3 FDC plugs/caps in place/undamaged		
B.5.0 ALARM PANEL CLEAR		C.6.4 FDC gaskets in place and in good condition		
B.6.0 TANK RETURNED TO SERVICE		C.6.5 FDC identification sign in place		
B.7.0 COMMENTS:		C.6.6 FDC check valve not leaking		
		C.6.7 FDC automatic drain valve in place and		
		operating properly		
		C.6.8 FDC clapper is in place and operating properly		
		C.6.9 FDC interior inspected where caps missing		
	_	C.6.10 FDC obstructions removed as necessary		
		C.7.0 ALARM PANEL CLEAR		
		C.8.0 COMMENTS:		
(All "NO" answers to	o be explained)			_
INSPECTOR'S INITIAL OWNER/DESIGNAT	ED REP INITIAL	DATE: Pag	e 1 of 3	

Report of Inspection, Testing & Maintenance of Standalone Fire Suppression Water Storage Tanks

2005 Edition

Report of Inspection, Testing & Maintenance of V	Nater Storage	Fankscontinued		
Inspecting Organization:		Inspection Contract#		
Name of Inspected Property:				
Inspector Name:				
Inspection Frequency:Monthly	Quarterly	Annually Other		
Semi-Annual Testing for Water Storage	Tanks	Annual Testing for Water Storage Tan	nks YN/A	N
D.1.0 Tank in service before testing		F.1.0 Tank in service before testing		
D.1.1 Pertinent parties notified before testing		F.2.0 Pertinent parties notified before testing		
D.2.0 Control valve supervisory switch initiates		F.3.0 Control valves operated through full range and		
distinct signal during first two hand wheel		returned to normal position		
revolutions or before valve stem moved		F.3.1 PIVs opened until spring or torsion felt in rod		
one-fifth from normal position		F.3.2 PIVs and OS&Ys backed 1/4 turn from full open		
D.2.1 Signal restored only when valve returned		F.4.0 Adequate drainage provided before flow testing		
to normal position		F.4.1 Main drain test conducted		
D.3.0 Adequate drainage provided before flow testing		F.4.2 Supply water gauge reading before flow (static)		psi
D.3.1 Main drain test conducted		F.4.3 Gauge reading stable flow (residual)		psi
D.3.2 Supply water gauge reading before flow (static)	psi	F.4.4 Time for supply pressure to return to normal		sec
D.3.3 Gauge reading during stable flow (residual)	psi	F.5.0 Pertinent parties notified of test conclusion		
D.3.4 Time for supply pressure to return to normal	sec	F.6.0 ALARM PANEL CLEAR		
D.4.0 Tank high water level alarm tested		F.7.0 TANK RETURNED TO SERVICE		
D.4.1 Tank low water level alarm tested		F.8.0 COMMENTS:		
D.4.0 Pertinent parties notified of test conclusion				
D.5.0 ALARM PANEL CLEAR				
D.6.0 TANK RETURNED TO SERVICE				
D.7.0 COMMENTS:				
		Annual Maintenance for Water Storage 1	anks	
		, amaa mamtenanee ter water eterage t	Y N/A	N
		G.1.0 Tank in service before conducting maintenance		
		G.2.0 Pertinent parties notified before conducting		
Annual Inspection for Water Storage Ta	anks	maintenance		
, ,	Y N/A N	G.3.0 Operating stems of OS&Y valves lubricated		
E.1.0 Tank in service on inspection		G.3.1 Valve completely closed and reopened		
E.2.0 Wooden tank hoops/grillage appear in good		G.4.0 Adequate drainage provided before flow testing		
condition		G.4.1 Main drain test conducted		
E.3.0 Exterior painted, coated, or insulated surfaces		G.4.2 Supply water gauge reading before flow (static)		psi
of tank show no signs of degradation		G.4.3 Gauge reading during stable flow (residual)		psi
E.3.1 Exterior painted, coated, or insulated surfaces		G.4.4 Time for supply pressure to return to normal		sec
of tanks supporting structure show no signs		G.5.0 Pertinent parties notified after conclusion of		
of degradation		maintenance		
E.4.0 Expansion joints show no signs of leaks		G.6.0 ALARM PANEL CLEAR		
and cracks		G.7.0 TANK RETURNED TO SERVICE		
E.5.0 ALARM PANEL CLEAR		G.8.0 COMMENTS:		
E.6.0 COMMENTS:				
(All "NO" answers to	o be explained)			
INSPECTOR'S INITIAL OWNER/DESIGNATI	-	DATE: Pac	ge 2 of 3	

Report of Inspection, Testing & Maintenance of Standalone Fire Suppression Water Storage Tanks

2005 Edition

Report of Inspection, Testing & Maintenance of Wa	ater S	Stor	age	Tankscontinued			
Inspecting Organization:				Inspection Contract#			
Name of Inspected Property:							
Inspector Name:							
Inspection Frequency:Monthly		arterl	•	Annually Other			
Two-Year Ma	inte	naı	nce	for Water Storage Tanks			
	Ť	N/A	N		Ŷ	N/A	N
H.1.0 Tank in service before conducting maintenance	\perp			H.5.0 ALARM PANEL CLEAR	Ш		
H.2.0 Pertinent parties notified before conducting maintenance				H.6.0 TANK RETURNED TO SERVICE H.7.0 COMMENTS:	Ш		
H.3.0 Embankment supported coated fabric tank	_	1		THE COMMENTS.			
exterior exposed surfaces cleaned and painted							
H.4.0 Pertinent parties notified after conducting							
maintenance							
				Testing for Water Storage Tanks			
Five-year interval only where noted in parenthesis	-	N/A	N		Y	N/A	N
I.1.0 Tank in service before inspection and testing		-		I.7.4 Check valve internal components cleaned/			
I.2.0 Pertinent parties notified before inspection				repaired/replaced as necessary	Ш		L
and testing				The following testing items are applicable only to steel tanks	$\overline{}$		
I.3.0 Tank interior inspected (every three years for				with "NO" answers to any one of I.4.0-I.4.7	Υ	N/A	N
steel tanks without corrosion protection)				I.10.0 Tank drained	Ш		
I.3.1 Tank interior inspected (every five years for tanks				I.10.1 Tank coatings evaluated in accordance with			
other than steel tanks without corrosion protection)				the adhesion test of ASTM D 3359	Ш		
I.4.0 Silt removed (for underwater evalution)				I.10.2 Dry film thickness measurements take at			
I.4.1 Tank interior shows no signs of pitting				random locations	Ш		
I.4.2 Tank interior shows no signs of corrosion				I.10.3 Nondestructive ultrasonic readings taken to			
I.4.3 Tank interior shows no signs of spalling				evaluate wall thickness only where there is			
I.4.4 Tank interior shows no signs of rot				evidence of pitting or corrosion			
I.4.5 Tank interior shows no signs of other forms				I.10.4 Interior surfaces spot wet-sponge tested to			
of deterioration				detect pinholes, cracks, or other compromise			
I.4.6 Tank interior shows no signs of waste materials,				in the coating			
debris, or aquatic growth				I.10.5 Nondestructive ultrasonic readings taken for			
I.4.7 Tank interior shows no signs of local or general				metal loss and/or rust on the underside of			
failure of interior coating				tank bottoms where there is evidence of			
I.5.0 Tank on ring-type foundation with sand in the				pitting or corrosion OR floor bottom coupons			
middle shows no sign of voids beneath the				removed inspected, and replaced			
floor (5 year)				I.10.6 Flat-bottomed tanks vacuum-box tested at	П		
I.5.1 Tank heating system components inspected (5 year)				bottom seams in accordance with NFPA 22			
I.6.0 Tank anti-vortex plate shows no sign of				I.11.0 Pertinent parties notified of conclusion of	П		
deterioration or blockage (5 year)				testing and maintenance			
I.7.0 Check valves internally inspected (5 year)				I.11.0 ALARM PANEL CLEAR	П		
I.7.1 Check valve internal components operate correctly				I.12.0 TANK RETURNED TO SERVICE	П		
I.7.2 Check valve internal components move freely				I.13.0 COMMENTS:			
I.7.3 Check valve internal components in							
good condition							
Five-Y€	ear Te	estir	ng o	f Water Storage Tanks			
14.0 T	Υ	N/A	N		Υ	N/A	N
J.1.0 Tank in service on inspection J.2.0 Pertinent parties notified before testing				J.4.2 System gauges recalibrated as necessary J.4.3 System gauges replaced as necessary	₩	-	
J.3.0 Tank water level indicators tested for accuracy	+	1		J.5.0 Pertinent parties notified of test conclusion	${}+$		
and freedom of movement				J.6.0 ALARM PANEL CLEAR	Ħ		
J.4.0 System gauges tested by comparison with				J.7.0 TANK RETURNED TO SERVICE			
calibrated gauge				J.8.0 COMMENTS:			
J.4.1 System gauges accurate within 3% of full scale			!\	<u> </u>			
(All "NO" answers to b	•		•	DATE		•	
INSPECTOR'S INITIAL OWNER/DESIGNATED	, KEP.	lini i	IAL _	DATE: Page 3	OT :	3	